



GOVERNMENT GENERAL DEGREE COLLEGE, KESHIARY

PASCHIM MEDINIPUR, PIN 721135, WEST BENGAL

1. Name: DR. SUTAPA RAY

2. Department: Chemistry

3. Highest academic degree: Ph.D.

4. Specialization: Organic Chemistry

5. Contact number: 7908762257

6. E-mail: sutapa10@gmail.com

7. Date of joining to the service: 28.09.2010



8. Colleges served:

	<i>Name of the College</i>	<i>From</i>	<i>Till</i>
1	Jhargram Raj College	28.09.2010	29.07.2016
2	Government General Degree College, Keshiary	30.07.2016	continuing

9. Area of research interest:

- 1 Synthetic Organic Chemistry
- 2 Water Pollution
- 3 Environmental Science

10. Publications:

Paper/Research article		Book/book-chapter		Citation	ΣIF	h-index	i-index	Abstracts
<i>International</i>	<i>National</i>	<i>International</i>	<i>National</i>					
9	1	1	2	104	18.973	5	5	7

11. Awards/achievement of special mention:

- 1 Humboldt Fellowship for postdoctoral research in Germany from Alexander von Humboldt Foundation in year 2010.
- 2 National Junior Research Fellowship from the Council of Scientific and Industrial Research (NET-CSIR Dec' 2002), New Delhi, Govt. of India in year 2003.
- 3

12. Research project/extramural grant mobilized:

	<i>Funding agency/body</i>	<i>Amount(Rs.)</i>	<i>Name of the research project</i>	<i>From</i>	<i>Till</i>
1	SERB, DST	2210000	Synthetic Studies towards Geneserine	15.09.2015	14.09.2018

13. Patent (International/National)

- 1 NIL
- 2

14. Editorial board member/ Reviewer of any journal/literary body:

- 1 NIL

15. Member of any learned society:

- 1 Indian Science Congress Association

16. List of full length publications (year wise in descending order):

- 1 Ray, S.and Dey, K. (2020).Coal Mine Water Drainage: The Current Status and Challenges *J. Inst. Eng. India Ser.D* , 101(3), 165-172.
- 2 Ray, S. (2018). Nitration of Phenolic Compounds with Magnesium nitrate and acetic acid. *Prayogik Rasayan* , 2(4), 01-02. ISSN no. 2581-3323.
- 3 Ray, S.and Dey, K. (2018). Feasibility of CO₂ Sequestration as a closure option for underground coal mine. *J. Inst. Eng. India Ser.D* , 99(1), 57-62.
- 4 Basak, S.; Ray, S. and Mal, D. (2018). Application of intramolecular carbonyl-ene reaction towards the synthesis of idarubicinone scaffold. *Arkivoc*, 2018, 257-269.
- 5 Ray, S. and Mal, D. (2010). Synthesis of ventinone A and structural ambiguity of ventinone B. *J. Indian Chem. Soc.* , 87, 833-836.

- 6 Mal, D.; Jana, A. K.; Ray, S.; Bhattacharya, S.; Patra, A. and De, S. R. (2008). DBU-MeI, a potential substitute for CH₂N₂ for the preparation of methyl esters: studies with assorted carboxylic acids. *Synth. Commun.* , *38* , 3937-3946.
- 7 Mal, D. and Ray, S. (2008). First synthesis of 9,10-dimethoxy-2-methyl-1,4-anthraquinone, a naturally occurring contrathermodynamic anthraquinone. *Eur. J. Org. Chem.* , *17* , 3014-3020.
- 8 Ray, S.; Patra, A. and Mal, D. (2008). Tandem annulation strategy for the convergent synthesis of benzonaphthopyranones: total synthesis of chartarin and O-methylhayumicinone, *Tetrahedron* , *64* (14) , 3253-3267.
- 9 Mal, D.; Ray, S. and Sharma, I. (2007). Direct Access to 1,4-dihydroxyanthraquinones: the Hauser Annulation Reexamined with para-Quinones. *J. Org. Chem.* , *72*(13), 4981-4984.
- 10 Patra, A.; Pahari, P.; Ray, S. and Mal, D. (2005). A Brief and Convergent Synthetic Route to Defucogilvocarcin M Chromophore: The Formal Synthesis of WS-5995 A and C. *J. Org. Chem.* , *70* (22), 9017-9020.

17. List of Book/book chapter publications (year wise in descending order):

- 1 Ray, S. (2020). Testing for toxic and undesirable contaminants of effluent water-current status and future need, Book Chapter in Chemistry and Biology Sustainable Progress of Human. Scientific World. ISBN:978-93-84387-76-1
- 2 Ray, S. (2020). Dr. Charusita Chakravarty-An Unforgettable name in Indian Chemistry, Book Chapter in The Contributions of Indian Women to Science. Scientific World. ISBN:978-93-84387-75-4
- 3 Ray, S. (2010). Synthetic Studies on Selected Aromatic Polyketides: Methods and Practices. LAP LAMBERT Academic Publishing. ISBN:978-3843355292

18. List of published abstract (year wise in descending order):

- 1 Ray, S. (2020). A study to synthesize the key intermediate of Geneserine. National Symposium "Recent Trends in Chemistry at the Interface with Biology", Department of Chemistry & IQAC, Bagnan College
- 2 Ray, S. (2020). Substituted Naphthalene Ring Synthesis Using Intramolecular Carbonyl-ene Reaction. National Symposium "Emerging Trends in Chemical Sciences", Department of Chemistry, Jadavpur University
- 3 Ray, S. (2019). Synthetic studies towards Geneserine. International Symposium "Advanced Renewable & Functional Materials", Chirantan Rasayan Sangstha in association with Dept. of Chemistry, Raja Narendra Lal Khan Womens' College Midnapore, at Gope College, Midnapore, West Bengal
- 4 Ray, S. (2018). Use of intramolecular carbonyl-ene reaction towards the synthesis of Idarubicinone. International Symposium "Rasayan 03", Chirantan Rasayan Sanstha, at Gope College, Midnapore, West Bengal

- 5 Ray, S. (2017). Use of intramolecular carbonyl-ene reaction in the synthesis of various substituted naphthalene rings. National Symposium on Rasayan-2017, Chirantan Rasayan Sanstha, Midnapore, West Bengal
- 6 Ray, S. (2016). Synthesis of substituted naphthalene using intramolecular carbonyl-ene reaction. UGC sponsored National Symposium on Enthralling Facts of Molecular Manifestation in Chemical Sciences, Department of Chemistry, Bidhannagar College, Salt Lake, Kolkata.
- 7 Mal, D. and Ray, S. (2006). Synthetic Studies towards Chrymutasin and Hayumicin aglycons, Fifth One Day National Symposium in Chemistry, Indian Institute of Technology, Kharagpur, India.

19. List of Seminar/Workshop/Conference/Symposium attended (year wise in descending order):

- Two days National Symposium "Recent Trends in Chemistry at the Interface with Biology", Department of Chemistry & IQAC, Bagnan College, August 30,31, 2020.
- 1 One day National Symposium "Emerging Trends in Chemical Sciences", Department of Chemistry, Jadavpur University, January 7, 2020.
- 2 International Symposium "Advanced Renewable & Functional Materials", Chirantan Rasayan Sangstha in association with Dept. of Chemistry, Raja Narendra Lal Khan Womens' College, December-20-21, 2019.
- 3 Workshop titled Towards smart functional material; an interdisciplinary approach at the Department of Chemistry, IIT, Kharagpur, March 19, 2019
- 4 International Symposium "Rasayan 03", 2018 organised by Chirantan Rasayan Sanstha, at Gope College, Midnapore, West Bengal, November 11, 2018.
- 5 6 National Symposium on Rasayan-2017, organised by Chirantan Rasayan Sanstha, Midnapore, West Bengal, February 25, 2017.
- 7 Two Day Workshop on Radiation Based Methods in Material Characterisation and Material Alterations, organised by UGC-DAE Consortium for Scientific Research, Kolkata Centre and Jhargram Raj College, Paschim Medinipur, February 8-9, 2017.
- 8 UGC sponsored National Symposium on Enthralling Facts of Molecular Manifestation in Chemical Sciences, organised by Department of Chemistry, Bidhannagar College, Salt Lake, Kolkata, September 15-16, 2016.
- 9 One day seminar on The Common Threads in Physical Sciences, organised by Department of Physics, Chemistry and Mathematics, Jhargram Raj College, Paschim Medinipur, February 18, 2016.
- 10 UGC-Sponsored "Refresher Course" for the College & University Teachers held at Academic Staff College, Jadavpur University, January 2 to January 22, 2014.

- 11 One day workshop on optical condensed matter science, organized by IIT, KGP OSA student chapter in collaboration with Department of Physics, Jhargram Raj College, Paschim Medinipur, December 19, 2013.
- 12 UGC-Sponsored "Orientation Programme No. 96" for the College & University Teachers held at Academic Staff College, University of Calcutta, from June 23rd to July 21, 2012.
- 13 UGC Sponsored National Symposium on "Exploration of Biological Processes through Chemical Sciences", organised by the Department of Chemistry and Department of Zoology, Narasinha Dutt College, Howrah, December 7-8, 2011.
- 14 UGC Sponsored National Symposium on "The Journey of Chemistry Through Ages- Yesterday Today Tomorrow",organised by the Department of Chemistry, Maulana Azad College, Kolkata, November 23-24, 2011.
- 15 UGC Sponsored State-level Seminar on "Nation and its Tribal Populace", jointly organized by Department of English and Department of History, Jhargram Raj College, in collaboration with the Jhargram Mahakuma Janashiksha prasar samity, Jhargram, Paschim Medinipur, October 4-5,2010.
- 16 Fifth One Day National Symposium in Chemistry, Indian Institute of Technology, Kharagpur, India, February 26, 2006.

20. Special mention (if any):